

SPECIAL PROVISIONS

FOR

Jerry Street
Drainage Improvements
PROJECT # 21527
16001 North Jerry Street, Surprise, AZ



City of Surprise

PREPARED BY:



Strand Associates, Inc.
4602 East Elwood Street
Suite 16
Phoenix, AZ 85040
(P) 602-437-3733

Table of Contents

PART A: SCOPE OF WORK	1
PROPOSED WORK.....	1
1. LOCATION OF THE WORK	1
2. PROPOSED WORK.....	1
3. CONSTRUCTION SPECIAL PROVISIONS AND PLANS.....	1
PART B: GENERAL INFORMATION	2
1. CONFORMITY WITH PLANS AND SPECIFICATIONS	2
2. COORDINATION OF PLANS AND SPECIFICATIONS.....	2
3. CONTRACT TIME	2
4. METHOD OF MEASUREMENT FOR PAYMENT	2
5. FAILURE TO MEET REQUIRED PROJECTION RATES.....	2
6. MATERIAL SPECIFICATIONS.....	2
7. TESTING	2
8. SALES AND USE TAXES	3
9. PRECONSTRUCTION CONFERENCE/WEEKLY MEETINGS	3
10. CONSTRUCTION PRACTICE	3
11. INSPECTION	3
12. WORKMANSHIP, METHODS, AND EQUIPMENT	3
13. LIMITS OF WORK.....	4
14. PLANS AND SHOP DRAWINGS.....	4
15. COOPERATION WITH UTILITIES	5
16. COMMENCEMENT, PROSECUTION AND PROGRESS	5
17. CONSTRUCTION SCHEDULE.....	6

18.	LIMITS OF OPERATIONS.....	6
19.	SAWCUTTING	6
20.	CLEARING AND GRUBBING	6
21	CLEANUP AND DUST CONTROL.....	6
22.	FINAL CLEANING UP	7
23.	PERMITS	7
25.	SCHEDULE OF LABOR AND EQUIPMENT	7
26.	RECORD DRAWINGS	7
	PART C: BID ITEMS.....	8
	Item 1- Mobilization I Demobilization.....	8
	Item 2 - As-Builts	8
	Item 3 - Pedestrian Access	9
	Item 4 - AZPDES plan & Notification	10
	Item 5 - Dust Control	10
	Item 6 - Soil Removal	11
	Item 7 - Tree Removal	11
	Item 8 - Removal of Existing Fence	11
	Item 9 - Removal of Existing 4" Sewer Lateral	11
	Item10 - Maxwell Plus Drywell	11
	Item 11 - Maintenance of Existing Drywell	11
	Item 12 - Split Face Concrete Masonry Wall	12
	Item 13 - Install Drainage Openings	12
	Item 14 - Concrete Spillway per MAG Standard Detail 206-1	12
	Item 15 - Flare Phase 1 Spillway	12
	Item 16 - Rip rap: D50 = 8" - 1' Depth.....	12
	Item 17 - Base Aggregate	13
	Item 18 - 16' Double Door Swing Gate	13

Item 19 - Paint Safety Railing.....13

Item 20 - Private Property Sign13

Item 21 - 3/4” Decomposed Granite.....13

PART A: SCOPE OF WORK

PROPOSED WORK

1. LOCATION OF THE WORK

The Jerry Street Drainage Improvement project is located approximately 2,000 feet north of Greenway Road at the intersection of Jerry Street and Rimrock Street in the City of Surprise, Maricopa County, Arizona. More specifically, 16001 N Jerry Street is located on the east side of the road.

2. PROPOSED WORK

In general, the work consists of surface retention construction consisting of; soil and debris removals, grading, concrete spillways, perimeter wall construction, tree removals, painting, drywell cleanout and new drywell installation.

3. CONSTRUCTION SPECIAL PROVISIONS AND PLANS

The work herein shall be performed in accordance with the requirements of the following separate documents except as modified in these Special Provisions or on the Contract Plans. If a bid item is identified by more than one Standard Specification, the following is listed in priority.

City of Surprise Engineering Design Standards, 2012

Maricopa Association of Governments 2010 Uniform Standard Specifications and Details for Public Works Construction, Latest Edition, herein after referred to as "MAG Standard Specifications".

All other City of Surprise Department policies and procedures where applicable.

The above items of work along with the construction requirements are adequately described and defined in the Uniform Standard Specifications for Public Works Construction sponsored and distributed by the Maricopa Association of Governments (MAG) along with the MAG Uniform Standard Details and the City of Surprise Supplements thereto, latest revisions, or within these special provisions. In the event of conflict, the City of Surprise Supplements will prevail.

The information written into these special provisions will:

Describe any special or unusual conditions.

Explain details of the work not covered in the MAG Specifications and Details or the City of Surprise supplements thereto.

Relate certain work to specific bid items or payment quantities.

General construction notes for City of Surprise Public Works projects are included in the plan set and shall be representative, unless specifically noted otherwise, to all plan sheets.

PART B: GENERAL INFORMATION

1. CONFORMITY WITH PLANS AND SPECIFICATIONS

Shall be in accordance with the MAG Standard Specification Section 105.3. All work performed and all materials furnished shall be in conformity with the lines, elevations, grades, cross sections, dimensions and material requirements, including tolerances, shown on the plans or indicated in the specifications.

2. COORDINATION OF PLANS AND SPECIFICATIONS

Shall be in accordance with the MAG Standard Specification Section 105.4. The Contractor shall take no advantage of any apparent error or omission in the plans or specifications. In the event the Contractor discovers such an error or omission, he shall immediately notify the City Engineer. The Engineer will then make such corrections and interpretations as may be deemed necessary for fulfilling the intent of the plans and specifications.

3. CONTRACT TIME

The Contractor shall complete all project work within 60 calendar days beginning with the start date specified in the Notice to Proceed.

4. METHOD OF MEASUREMENT FOR PAYMENT

Shall be in accordance with the MAG Standard Specifications except as set forth as the unit price in the Bid Schedule. When the standard specifications uses a unit of measure that differs from the unit of measure shown on the Bid Schedule, the units shown on the Bid Schedule shall be controlling. The units shown in the standard specifications shall be revised to match the units shown on the Bid Schedule.

5. FAILURE TO MEET REQUIRED PROJECTION RATES

Failure by the Contractor to timely and adequately respond to the City Engineer or designated representative's weekly notice of product requirements shall constitute a material breach of the Contract, whereupon the City may cancel the Contract and pursue any available legal remedy to recover for damages from that breach.

6. MATERIAL SPECIFICATIONS

All materials shall conform to Section 106 of the MAG Standard Specifications, Construction Plans, and Bid Schedule as referenced in these technical specifications. Prior to the use or delivery of any materials, Contractor shall be required to furnish signed and notarized Certificates of Compliance to ensure that the City receives material that adheres to the previously mentioned specifications.

7. TESTING

The Contractor, at its own cost, shall provide sampling and density testing per MAG and City of Surprise Standard Specifications. A testing lab approved by the City Engineer or designated representative shall perform such testing. The Contractor, at its own cost, shall provide Quality Control personnel. The Contractor shall submit a QC Plan to the City at the Pre-construction Meeting for approval.

The frequency of samples taken shall be as determined by the City Engineer or designated representative. The frequency of density testing shall be determined by the City Engineer or designated representative. Exact locations of tests may be designated by the City Engineer or designated representative.

8. SALES AND USE TAXES

The Contractor shall not include sales or use taxes on certain materials and equipment to be installed on this project as described in Arizona Revised Statutes 42-1316 and 42-1409.

The Contractor shall furnish the City with a list of suppliers including materials and equipment furnished by each, which are applicable to this exemption.

9. PRECONSTRUCTION CONFERENCE/WEEKLY MEETINGS

Preconstruction Conference: The Contractor and all subcontractors shall attend a preconstruction conference meeting at a time and location designated by the City. The Contractor shall be prepared and ready to present to the City all required schedules, plans, etc., as described elsewhere in these special provisions and within the MAG Standard Specifications.

Weekly Meetings: The Contractor shall plan for and attend weekly meetings with the City at a location and designated time determined by the City. The Contractor shall include in the construction schedule adequate time for weekly construction progress meetings.

Contractor shall submit a 2-week schedule at each meeting and prepare and distribute meeting minutes within 48 hours following the meeting.

Contract Documents: Approved drawings, data, mixes and certificates as they are returned to the Contractor will become a portion of the Contract Documents.

10. CONSTRUCTION PRACTICE

All construction practices and procedures shall conform to Section 107 of the Contract Works Hours and Safety Standards Act, (US Stat. 96, 40 USC 327) the latest revisions shall prevail.

11. INSPECTION

Inspectors may be stationed on the work site to report to the City or his Designee as to the progress of the work, the manner in which it is being performed, and also to report whenever it appears that material furnished or work performed by the Contractor fails to fulfill the requirements of the specifications and contract. The Inspector may direct the attention of the Contractor to such failure or infringement but such inspection shall not relieve the Contractor from any obligation to furnish acceptable materials or to provide completed construction that is satisfactory in every particular.

In case of any dispute arising between the Inspector and the Contractor as to material furnished or the manner of performing the work, the Inspector shall have the authority to reject materials or suspend the work until the question and issue can be referred to and decided by the City. Inspectors are not authorized to revoke, alter, enlarge, relax, or release any requirements of the specifications. Inspectors shall in no case act as foremen or perform other duties for the Contractor or interfere with the management of the work by the Contractor.

Inspection or supervision by the City or Designee shall not be considered as direct control of the individual workman and his work. The direct control shall be solely the responsibility of the Contractor.

12. WORKMANSHIP, METHODS, AND EQUIPMENT

Where not more specifically described, workmanship shall conform to all of the methods and operations of best standards and accepted practices of the trade or trades involved and shall include all Items of fabrication, construction or installation regularly furnished or required for completion.

All work shall be executed by tradesmen skilled in their respective lines of work. Any personnel exhibiting inadequate training shall be removed from the project at the direction of the City Engineer or designated representative. Any equipment in poor or unsafe condition and unable to produce quality work shall not be permitted on the project. Any delays in the work process or costs incurred due to the unsuitable condition of equipment or inadequate personnel shall be the responsibility of the Contractor.

When completed, all work shall have been durably and substantially built and shall present a neat, workmanlike appearance.

13. LIMITS OF WORK

The Contractor in cooperation with the City's Inspector shall verify the boundaries of the work prior to the start of construction. Upon starting construction, the Contractor shall be responsible for replacing all missing, removed or damaged boundary delineating materials, such as walls, fences, etc. Boundaries of work are hereby established as the furthest line distant left or right of the construction centerline as either existing right of way, new right of way, drainage easement or temporary construction easement as shown on the plans. Once construction activities have commenced, no disturbance of the existing ground beyond such delineated line shall take place. Intrusion outside of the limits by the Contractor will be penalized \$100 per square yard. Any aggregated amount shall be deducted from the Contractor's final payment.

14. PLANS AND SHOP DRAWINGS

Plans and Shop drawings shall conform to Section 105.2 of the MAG Standard Specifications except as modified as follows:

The Contractor shall furnish to the City of Surprise's Project Manager shop drawings in sufficient detail to show complete compliance with all specified requirements, including but not necessarily limited to the following:

Shop Drawings:

Shop drawings shall include the name of the project, project number, date prepared, name of the Preparer, Contractor, and Subcontractor, if applicable. All dimensions and identification of products and materials included, along with notation of any coordination requirements and established field dimensions/measurements/verifications shall be clearly shown or noted.

Drawings of minor or incidental fabricated material and/or equipment may not be required by the City of Surprise.

Distribution and Review:

The contractor shall anticipate and schedule for a two week review period by the City of Surprise and/or its designee during which time will either approve, disapprove, or request modifications. The latter two will require re-submittal of the material and a subsequent additional review period. This process shall be repeated until all submitted materials have been approved.

Shop drawings shall be on sheets in standard size increments between 8 1/2" x 11" and 11" x 17" or 24" x 36". All drawings shall indicate the name of the job, the City's job number, date, names of the Contractor, Subcontractor and Preparer, and the date of approval by the Contractor.

Five (5) Contractor approved copies along with a letter of transmittal shall be delivered to the City's Construction Coordinator. The Contractor shall first review all submitted data for compliance with specification and job requirements. Any Contractor comments, recommendations, etc. shall be clearly noted on the submitted data.

If the submittal is acceptable, three (3) copies will be stamped approved, dated, initialed by the Reviewer, and returned to the Contractor.

If the submittal requires corrections or is rejected, three (3) copies along with an explanation of the outstanding concerns will be returned to the Contractor for revision and resubmittal as described above.

Re-submittal of any required corrections shall be made within ten working days.

Contract Documents:

Approved drawings as they are returned to the Contractor will become a portion of the Contract Documents.

15. COOPERATION WITH UTILITIES

Cooperation of Utilities shall conform to Section 105.6 of the MAG Standard Specifications except as modified as follows:

The contractor shall be responsible for identifying all underground utility locations where construction occurs. The contractor shall notify Blue Stake (602-263-1100) at least two (2) working days prior to beginning construction for field location of existing utilities. The Contractor shall not assume that this represents an exact location of the line. Other abandoned older and undocumented underground utility and irrigation lines exist within the project area. Should a utility be hit during construction activities, the contractor shall contact Blue Stake and the utility company immediately.

The contractor shall exercise special care and shall follow the utility company's procedures while working near high pressure gas lines or high voltage overhead or underground electric facilities.

The locations of existing underground utilities have been shown on the plans to the best of the Design Engineer's knowledge; however, it shall be the Contractor's responsibility to field verify all utility locations and to coordinate in a timely manner with the pertinent utility companies so that any obstructing utility installation may be adjusted without delay to the Contractor's project schedule. Specifically noting the Cox Cable that is currently servicing 15851 N Jerry Street.

Contractor shall adequately protect and maintain all existing utilities. Any utility, whether shown or not, damaged due to construction shall be repaired immediately at the contractors expense.

In addition, the City of Surprise shall not consider additional compensation requests from the Contractor to perform any potholing, utility company coordination, etc. needed to locate/verify utility location, to adjust contract work items as necessary to avoid utility line conflict, to cooperate with utilities in adjusting schedule as needed to allow for utility company work, relocations, etc.

16. COMMENCEMENT, PROSECUTION AND PROGRESS

Commencement, Prosecution and Progress shall conform to Section 108.2 of the MAG Standard Specifications except as modified as follows:

The Contractor shall perform, with his own organization, work amounting to not less than 50% of this contract.

17. CONSTRUCTION SCHEDULE

Construction Schedule shall conform to Section 108.4 of the MAG Standard Specifications except as modified as follows:

The Contractor shall be fully responsible for coordinating the work schedule with neighboring residents. The City will not be responsible for delays and/or additional mobilization/demobilization costs.

The Contractor shall furnish the City a construction schedule for review. The City's review of the Contractor's schedule is for the purposes of 1) to insure general compliance with the contract documents as it relates to the completion of the work; and 2) to monitor and evaluate the construction status for purposes of approving progress payments. In the event the schedule does not contain sufficient information to meet the above purpose, as determined by the City, the Contractor shall resubmit a new schedule with the additional information requested by the City. The construction schedule shall not be changed without the written consent of the City. The orderly procedure of all work to be performed shall be the responsibility of the Contractor.

The schedule shall identify the work to be performed, including the location and duration of planned activities. Submittals shall be made a minimum of seven days prior to the planned work to allow sufficient time for the City to review and schedule any necessary inspections.

The Contractor shall provide weekly updates to the construction schedule for review with the Construction Coordinator or duly authorized representative. Failure to provide such weekly updates will result in retention of monthly progress payments until the schedule is updated.

Review of a submitted schedule by the City shall in no way be construed as an affirmation or admission that the schedule is reasonable or workable which responsibilities remain the obligations- of the Contractor. When the schedule shows a completion prior to the contract completion date, this extra time between the contract completion date and the scheduled completion date (float), may be used by the City without additional compensation to the Contractor. The City shall not be liable to the Contractor for any damages for delay if the Contractor completes the work prior to the expiration of the original Contract completion date or as modified by approved change orders, if any.

18. LIMITS OF OPERATIONS

Section 108.5, Limitations of Operations of the MAG Standard Specifications are modified as follows:

The project may be sequenced as the Contractor desires, subject to review by the City.

Contractor to coordinate limits of operations with the City Engineer or their Representative.

19. SAWCUTTING

The Contractor shall be responsible for all sawing/cutting as required. All cutting shall be with an Asphalt/Concrete Saw. No "breaking" of asphalt shall be permitted by use of air compressors and spade without prior authorization by the City Engineer or designated representative. No measurement or direct payment will be made for saw or wheel cutting, the cost being considered as included in the price of contract items. Sawcutting shall be required at all pavement tie-in locations.

20. CLEARING AND GRUBBING

Clearing and Grubbing shall be according to MAG Standard Specifications Section 201. Clearing and Grubbing efforts are to be kept to a minimum outside of the proposed project limits.

21. CLEANUP AND DUST CONTROL

Cleanup and dust control shall adhere to MAG Standard Specifications Section 104.1.3. The Contractor shall be responsible for obtaining and payment of the necessary permit.

22. FINAL CLEANING UP

The Contractor, at its own cost, shall restore the site to pre-construction conditions. Before final acceptance, all private or public property and grounds occupied by the Contractor in connection with the Work shall be cleaned of all rubbish; excess materials, temporary structures and equipment, and all parts of the work area shall be left in a condition acceptable to the City Engineer. Costs for this item considered to be included in the overall bid price and no separate payment shall be made.

23. PERMITS

Permitting Section 107.2 of the MAG Standard Specifications shall be deleted and the following inserted:

It shall be the responsibility of the Contractor to obtain all required permits for construction, dust control, relocation of native plants, etc.

Only City of Surprise permits will be issued at no charge, but any other permits or fees needed for the work will be paid for by the Contractor and will not be reimbursed by the City.

All haul routes for removals, excavation and dirt moving must be approved by the City prior to commencement of operations.

This project is subject to the Maricopa County Air Pollution Control Regulations. The Contractor shall comply with the provisions of Surprise MAG Supplemental Specification Subsection 107.2.2.

24. SCHEDULE OF LABOR AND EQUIPMENT

Contractor to provide a Schedule of Labor and Equipment Costs on a Time and Material Basis with their construction bid. This should include Project Manager, Project Engineer, Superintendent, etc. to the City Representative 2-weeks after notification of award.

25. RECORD DRAWINGS

Contractor shall provide Record Drawings which shall clearly show all differences between the contract work as drawn and as installed for all work, as well as work added to the contract which is not shown on the Contract Drawings.

The Contractor shall maintain one set of Record Drawings at the job site. These shall be kept legible and shall be available for inspection at all times by the City. Show all changes in the contract work, or work added, on these Record Drawings in a contrasting color (red) including work changed by Addendum or Approved Change Order.

City shall review the Record Drawings and shall be the sole judge of the acceptability of these drawings. Update Record Drawings showing all as-built construction shall accompany each progress payment submittal.

Upon completion of the project, submit final Record Drawings to the City for final review. Upon receiving approval by the City of the Record Drawings, deliver them together with one set of prints to the City's project manager. Final acceptance of the project will not be given until all such information is submitted.

PART C: BID ITEMS

The following bid Items are included to explain details of work not covered by applicable Standard Specifications and to relate work and pay quantities to the specific Bid Item.

Any Items of work shown on the plans but not covered by bid Items, as shown on the bid schedule, shall be considered incidental to the project.

Item 1 - Mobilization I Demobilization

Description: Mobilization/Demobilization shall be per Section 109.10 of the MAG Standard Specifications.

Measurement and Payment: Payment for Mobilization/Demobilization will be paid at the unit price of lump sum as specified in the Bid Schedule and shall include all labor and materials.

Item 2 - As-Builts

Description: As Builts shall conform to Section 105.2 of the MAG Standard Specifications except as modified as follows:

General: The City of Surprise will provide the Contractor with the original bond plan sheets for use in preparing final As-Builts. Information shall be shown on these originals and then scanned to mylars, depicting the constructed dimensions, elevations, grades and materials including locations of existing underground utilities found during construction.

The Contractor shall exercise extreme care in handling the originals and will return them to the City in like condition. In the event the originals are damaged or determined by the City to be unacceptable, the Contractor shall replace the originals by contacting the Design Engineer of record and have new drawings produced. All costs incurred as the result of replacing the originals shall be borne by the Contractor. The City will be the sole judge in determining whether the As-Builts are acceptable.

The as-built drawings shall be certified by an Arizona Registered Land Surveyor. As-built drawings shall be delivered to the City of Surprise within thirty (30) days from the date of final inspection and acceptance by the City of the work completed under this contract. Final payment will be made only after submitted As-Builts are accepted by the City.

Measurement and Payment: As-Builts will be measured as a single complete item of work and paid at the lump sum price indicated on the Schedule of Bid Items, which amount shall be considered full compensation for the work as described herein. Payment for work under this bid Item will be made when the City accepts the final as-built mylars. Should the Contractor fail to submit acceptable As-Builts within the maximum 30 calendar day period noted above, the City will execute a deduct change order for 10% of the As-Built bid Item total from the contract (or \$2,500.00, whichever is greater) for every 5 working day period that the Contractor fails to provide acceptable As-Builts (not including City review time). If the Contractor fails to submit acceptable As-Builts after the 3rd submittal, the City will deduct 50% from the As-Built bid Item total from the contract (or \$10,000.00, whichever is greater)

and execute a final change order noting the City's justification for penalizing the Contractor for unacceptable as-built preparation.

Item 3 - Pedestrian Access

Pedestrian Access Requirements: The Contractor shall ensure that all sidewalks on this project remain open and safely usable at all times.

Safety Fencing Requirement for Trenches and Excavations: The Contractor shall provide safety construction fencing around all open trenches and excavations during all non-working hours.

The Contractor shall provide for the safety and welfare of the general public by adequately fencing all excavations and trenches that are permitted by the Engineer to remain open when construction is not in progress.

Fencing shall be securely anchored to approved steel posts located six (6) feet on centers, having a minimum height of six (6) feet, and shall consist of wire mesh fabric of sufficient weight and rigidity to adequately span a maximum supporting post separation of six (6) feet.

The fencing, when installed about the periphery of excavations and trenches, shall form an effective barrier against intrusion by the general public into areas of construction. The Contractor, at all times when construction is not in progress, shall be responsible for maintaining the fencing in good repair, and upon notification by the Engineer, shall take immediate action to rectify any deficiency. Prior to the start of any excavating or trenching required for the execution of the proposed work, the Contractor shall submit to the Engineer for approval, detailed plans showing types of materials and methods of fabrication for the protective fencing.

There will be no separate measurement or payment for furnishing, installing, or maintaining protective fencing. The cost shall be considered incidental to the cost of the pipe and/or structures.

Payment: of the MAG Uniform Standard Specification is revised to read:

Payment for Pedestrian access shall be made at the lump sum bid price in equal payments distributed over the entire duration of the project.

Item 4 - AZPDES Plan & Notification

Description: AZPDES Plan and Notification shall conform to Section 107.2 of the MAG Standard Specifications except as modified as follows:

General: The Contractor shall be responsible for providing a Stormwater Pollution Prevention Plan (SWPPP). The Contractor shall ensure construction operations prevent or control the discharge of pollutants into stormwater by performing all construction in accordance with the approved Stormwater Pollution Prevention Plans (SWPPP).

The work under this Item shall consist of preparing and providing an Arizona Pollutant Discharge Elimination System (AZPDES) and Notification in accordance with the requirements of the Arizona Department of Environmental Quality's (ADEQ) Construction General Permit.

The steps the Contractor shall take includes:

Submission of a Notice of Intent (NOi) that includes general information and location to closest water body; The development and implementation of a Storm Water Pollution Prevention Plan (SWPPP) with appropriate BMPs to minimize the discharge of pollutants from the site. The operator (Contractor) must submit the SWPPP along with the NOi if the site is located within 1/4 mile of a unique or impaired waters*; and Submission of a Notice of Termination (NOT) when final stabilization of the site has been achieved as defined in the CGP or when another operator has assumed control of the site. * - "Unique waters" are listed in AAC R18-11-112 and "impaired waters" are waters that do not meet designated uses and are listed as such under Section 303 of the Clean Water Act. The Contractor shall provide copies of all plans and notifications to the Engineer.

Method of Measurement: Measurement for AZPDES Plan and Notification shall be on a lump sum basis.

Basis of Payment: The accepted quantities for AZPDES Plan and Notification measured as provided above will be paid for at the contract unit price, which price will be full compensation for the work complete in place, as shown on the plans and as specified in the specifications.

Item 5 - Dust Control

Description: Water Supply Section 225.2 of the MAG Standard Specifications is revised to add the City of Surprise Construction Water Guidelines.

The Contractor shall also obtain and comply with a Dust Control Permit issued by Maricopa County Air Quality Department.

Measurement and Payment: Payment for Dust Control will be paid at the unit price of lump sum as specified in the Bid Schedule and shall include all labor and materials.

Item 6 - Soil Removal

Description: All soil removal shall conform to Section 201 of the MAG Standard Specifications. Geotechnical Evaluations conducted on site have determined that soil conditions range from silty sand, clayey gravel and sandy clay within the top 4-6 feet. Scattered trash, asphalt, and concrete debris were observed within the fill soils. Debris was only observed in the upper 2 feet of the test pits. medium dense to very dense clayey sand, gravel, silty gravel and sand with silt were encountered beyond the 6 foot depth mentioned above.

Measure and Payment: Earthwork will be paid for at the contract unit price per cubic yard of excavation as stipulated in the proposal. Such price shall include clearing, stripping, excavation, compaction, grading, hauling, removal and disposal of excess excavated material and unknown debris.

Item 7 - Tree Removal

Description: Removal of Existing trees 12" in diameter or larger shall conform to Section 201 of the MAG Standard Specifications.

Measure and Payment: Payment for removal of trees will be on a unit price of each as specified in the Bid Schedule and shall include all labor and materials.

Item 8 - Removal of Existing Fence

Description: Removal of Existing Fence to conform to Section 350 of the MAG Standard Specifications.

Measurement and Payment: Fence Removal will be paid at the unit price of lineal feet as specified in the Bid Schedule.

Item 9 - Removal of Existing 4" Sewer Lateral

Description: Removal of Existing Infrastructure to conform to Section 350 of the MAG Standard Specifications except as modified as follows.

General: This is a separate contingent bid Item to be used for removal and disposal of existing pipes and other items necessary for the accomplishment of the improvements

Payment: Payment for Sewer Lateral removal to be paid at the unit price of each as specified in the Bid Schedule and shall include all labor and materials.

Item 10 - Maxwell Plus Drywell

Description: Drywell shall be installed per Manufacturer's specifications as modified in the plans.

Measurement and Payment: Payment for Drywell will be paid at the unit price of each as specified in the Bid Schedule and shall include all labor and materials.

Item 11 - Maintenance of Existing Drywell

Description: The contract shall perform maintenance on the existing drywell located at Jerry Street and this project's entrance. Maintenance shall include removal of all sediment, cleaning of all filters and screens, and replacement of the chemical absorbents. Removed material should be disposed of at a landfill or facility which is approved to accept it.

Measurement and Payment: Payment for maintenance of Existing Drywell will be paid at the unit price of each as specified in the Bid Schedule and shall include all labor and materials.

Item 12 - Split Face Concrete Masonry Wall

Description: Masonry walls shall be constructed per plan details, conforming to Section 510 of the MAG Standard Specifications.

Measurement and Payment: Payment for concrete block masonry will be at a unit price of lineal feet as specified in the Bid Schedule and shall include all labor and materials, which includes masonry blocks, steel reinforcement, grout, concrete footings, grading, subgrade preparation, and paint.

Item 13 - Install Drainage Opening

Description: Masonry wall drainage openings shall be constructed per plan details, conforming to Section 510 of the MAG Standard Specifications.

Measurement and Payment: Payment for concrete block masonry wall openings will be at a unit price of each as specified in the Bid Schedule and shall include all labor and materials.

Item 14 - Concrete Spillway per MAG Standard Detail 206-1

Description: Concrete Spillway shall be constructed per MAG Standard Detail 206-1 and shall conform to Section 340 of the MAG Standard Specifications. Existing secondary drywell chamber will be kept in place and incorporated into the north spillway construction. Existing spillway to be cut 2' and reconstructed to flare at a 4:1, matching into width of the masonry wall opening.

Measurement and Payment: Payment for spillway will be paid at the unit price of square feet as specified in the Bid Schedule and shall include all labor and materials.

Item 15- Flare Phase 1 Spillway

Description: Existing spillway sidewalls to be cut 2' and reconstructed to flare at a 4:1, matching into width of the masonry wall opening and shall conform to Section 340 of the MAG Standard Specifications.

Measurement and Payment: Payment for spillway will be paid at the unit price of square feet as specified in the Bid Schedule and shall include all labor and materials.

Item 16 - Rip Rap: D50 = 8" - 1' Depth

Description: Rip Rap installation to conform to Section 220 and 703 of the MAG Standard Specifications. Riprap construction shall include excavation, ground surface preparation, erosion control geosynthetic fabric, bedding material, riprap stone, grout (if used for the project)

and backfilling.

Payment: Payment for riprap will be made for the accepted complete in-place riprap construction at the unit price of cubic yard as specified in the Bid Schedule

Payment for riprap shall be full compensation for furnishing all material, labor and equipment for riprap construction.

Item 17 - Base Aggregate

Description: Aggregate Base Course, conforming to Section 702 of the MAG Standard Specifications, shall be installed under the north wall footing at a depth of 6”.

Measurement and Payment: Payment for aggregate base course will be made on the basis of the contract unit price per ton.

Item 18 - 16’ Double Door Swing Gate

Description: Double door swing gate to be installed at main entrance per plan details.

Measurement and Payment: Payment for gate installation to be paid at the unit price of each as specified in the Bid Schedule and shall include all labor and materials.

Item 19 - Paint Safety Railing

Description: Contractor is responsible for painting the Phase 1 safety railing. Color shall match masonry walls: FRAZEE CLC 1249W "ROLLING STONE"

Measurement and Payment: Payment for safety railing paint will be at the unit price of lineal feet as specified in the Bid Schedule and shall include all labor and materials.

Item 20 - Private Property Sign

Description: Private Property Sign to be installed on the front gate. Sign shall say, "CITY PROPERTY - NO TRESPASSING - VIOLATORS WILL BE PROSECUTED - ARS 13-1502, 1503, 1504

Measurement and Payment: Payment for sign will be paid at the unit price of each as specified in the Bid Schedule and shall include all labor and materials.

Item 21 - 3/4” Decomposed Granite

Description: All 3/4" screened Madison Gold decomposed granite shall conform to Sections 430.4 and 795 of the MAG Standard Specifications except as modified as follows:

Decomposed granite color and gradation shall be as shown on drawings. Color to be approved by Owner’s Representative. Provide decomposed granite with no lumps or balls of clay, caliche, organic matter, calcareous coating or any substance deleterious to plant life. Submit sample as required by these specifications.

Once area designated to receive decomposed granite or pit run rock, has been graded, compacted to proper level, and accepted, apply one application of pre-emergent to area and thoroughly water in. After first application of pre-emergent herbicide, install decomposed granite and pit run rock. Place decomposed granite and pit run rock in landscape areas as noted on drawings and water settle. After water settling, rake to provide uniform smooth surface. Remove decomposed granite, which in the opinion of Owner's Representative, has undesirable contaminants. Add decomposed granite to areas that are thin. Do second application of pre-emergent to decomposed granite and pit run rock area and thoroughly water in. Decomposed granite shall be spread to consistent depth and level below all tops of adjacent planters or sidewalk

Measurement and Payment: Payment for landscaping will be paid at the unit price of square yard as specified in the Bid Schedule and shall include all labor and materials.